Principal Investigator:	Laboratory building:	Laboratory room number(s):	Date:

SECTION 6A – BSL4/ABSL4 LABORATORIES ONLY: TO BE COMPLETED BY ALL ENTITIES FOR EACH PRINCIPAL INVESTIGATOR

NOTE: All entities must also complete Section 5A, Questions 1 and 2, above (CDC Form 0.1319/APHIS Form 2040)

1 7.	All e	entities must answer the following questions for each BSL-4 laboratory:
	a.	Activities conducted under BSL-4 containment (check all that apply):
		Research Diagnostic Large scale production Small animal Large animal
		Recombinant DNA Other (give description):
	b.	How many separate BSL-4 laboratories are you registering for select agent work?
		<u>1</u> laboratory <u>2</u> laboratories <u>3 or more laboratories</u>
	C.	Are these laboratories currently registered with the CDC Select Agent Program? Yes No
	d.	Are these laboratories currently registered with the APHIS? Yes No
	e.	Are these BSL-4 laboratories <u>currently</u> operational (presently conducting BSL-4 work)? Yes No
	f.	What type of BSL-4 laboratory (ies) are you registering?
		Protective suit laboratory Stand alone Class III cabinet laboratory
		Protective suit laboratory with associated Class III cabinet
8.		ude a floor plan for each BSL-4 laboratory, Class III cabinet laboratory, or ABSL-4 laboratory where select a to be used or stored.
		or plan(s) must include:
	a.	Sink locations Yes No
	b.	Eyewash locations Yes No
	C.	Laboratory furniture locations (including bench work) Yes No
	d.	Biosafety cabinet (BSC) locations Yes No
	e.	Fume hood locations Yes No
	f.	HVAC supply and exhaust locations Yes No
	g.	Freezer/refrigerator locations (include LN2 storage) Yes No
	h.	Other large equipment locations (e.g., incubators, centrifuges) Yes No
9.	Pro	vide information on the biosafety cabinets in use (attach additional sheets if needed):
	a.	Class of cabinet: II, Type A1 II, Type A2 (formerly II, B3) II, B1 II, B2 Class III
	b.	Biosafety cabinet connection to the HVAC system: Hard ducted Thimble Re-circulating
	C.	Define certification period: Annual Biannual Other (explain):
n	Pro	vide a description of the BSL-4 HVAC system (check all that are appropriate):
Ο.	a.	Single-pass
Ο.	h	Dedicated exhaust
.	b.	Constant air volume Variable air volume
0.	D. С.	Constant all volume variable all volume
.0.		Redundant exhaust fans

	ovide general facility and safety information for the BSL-4 laboratory facility (ies) you are regist estions in this section. Use separate sheets if necessary.	omig by c	anowering the
a.	BSL-4 laboratory design and operational procedures are documented and re-verified		
	annually:	Yes	No
b.	A specific BSL-4 facility operations manual has been prepared:	Yes	No
C.	All standard BSL-4 microbiological practices are followed:	Yes	No
d.	There is a mandatory daily inspection of the containment parameters for the BSL-4 laborator life support systems:	y area(s) Yes	and critical No
e.	Walls, floors, and ceilings of the BSL-4 laboratory rooms are sealed. All penetrations into the	laborato	ry are
	sealed:	Yes	No
f.	The HVAC system is dedicated and is not re-circulated:	Yes	No
g.	There is a visual and auditory alarm system provided to alert facility workers to system malful of containment parameters:	nctions a Yes	nd/or failures No
h.	Entry to the laboratory is through a double set of lockable, self-closing doors:	Yes	No
i.	Each protective suit or cabinet laboratory room has a hands-free sink:	Yes	No
j.	There is a double door autoclave for decontamination of materials from the suit lab and/or th cabinet room:	e Class II Yes	I cabinet and No
k.	A visual pressure differential monitoring system is provided at the clean change room for verify directional air before entry into the BSL-4 laboratory:	laborator Yes	y personnel t No
l.	Differential pressures/directional airflow between adjacent areas is monitored and alarmed (vindicate system failure:	∕isually aı Yes	nd audibly) to No
m.	Double HEPA filtration of all suit area, decontamination shower, decontamination airlock and exhaust air is in place:	Class III Yes	cabinet No
n.	Single HEPA filtration of all suit area, decontamination shower, decontamination airlock and air is in place:	Class III o	cabinet supply
0.	Describe method utilized for decontamination of BSL-4 area(s):		
<u>р.</u>	Inactivation of organisms and materials removed from BSL-4 containment is accomplished b	y what m	ethod?
	Irradiation Chemical disinfection Autoclaving Other Describe:		
q.	Inactivation of materials removed from BSL-4 containment is verified:	Yes	No

Laboratory room number(s):

Date:

Laboratory building:

Facilities registering a laboratory containing a Class III cabinet, must answer question 52. Facilities wishing to register protective suit laboratories and <u>suit laboratories with associated Class III cabinets must also answer question 53</u>.

- 52. Entities registering a **stand alone Class III Cabinet laboratory registration** must verify the following items:
 - a. Entry to the laboratory housing the Class III cabinet is through a double set of lockable, self-closing doors:

es No

b. Inner and outer change rooms are separated by a shower for personnel entering and leaving the cabinet room:

Yes No

c. There is a double-door (pass-through) autoclave, dunk tank, fumigation chamber, or ventilated anteroom for passing materials, supplies, or equipment into or out of the cabinet room:

Yes

No

Principal Investigator:

Walls, floors, and ceilings of the cabinet room(s) are sealed and all penetrations into the cabinet room(s) are

Yes

No

- Floors are seamless and coved: No e. Yes All drains in the cabinet room(s), inner change room(s), and autoclave chambers connect directly to an appropriate liquid waste decontamination system: Yes No Sewer vents and other service lines contain HEPA filters: Yes Nο Bench tops are seamless or sealed surfaces that are impervious to water and resistant to moderate heat and organic solvents, acids, alkalis, and other decontaminant chemicals: Yes No Laboratory furniture is capable of supporting anticipated loads and uses and is covered with a non-fabric material that can be easily decontaminated: Yes No A hands-free sink is located in the cabinet room(s) near the door and in the inner and outer change Yes No rooms:
- k. If a central vacuum system is present, it serves only the cabinet room(s) and is HEPA filter protected, and liquid and gas services to the cabinet room are protected by backflow prevention devices:
- I. Any windows are break resistant and sealed:

 Yes No
- m. Double-door autoclaves are provided for decontamination of materials removed from the Class III cabinet and the cabinet room. These autoclaves are interlocked so that the outside door can only be opened after the sterilization cycle is complete:
- o. All HEPA filters are tested and certified annually:

 Yes No
- p. An HVAC monitoring system is provided to avoid pressurization of the laboratory and is alarmed to warn laboratorians of exhaust system failure:
 Yes
 No
- q. There is HEPA filtration of all supply and exhaust air from the cabinet room(s), inner change room(s), and anteroom(s):
 Yes
- r. The Class III cabinet is directly connected to the exhaust system with HEPA filtration on the supply and double HEPA filtration on the exhaust:

 Yes No
- s. Appropriate communication systems are provided between the laboratory and external personnel (intercom, phone, fax, and computer):

 Yes No
- 53. Entities registering a protective suit laboratory or a protective suit laboratory with associated Class III cabinet registration must verify the following items (<u>suit laboratories with associated Class III cabinets must also answer question 52</u>):
 - a. Entry into the area(s) where work is performed with BSL-4 agents [suit room(s)] is through a series of changing and decontamination areas separated by airtight doors:

 Yes

 No
 - b. Inner and outer change rooms are separated by a personal shower:

 Yes

 No
 - c. A chemical shower is provided for decontaminating the outer surface of the protective suit:

 Yes No
 - d. A breathing air system is provided with redundant compressors, backup storage tanks, HEPA filtration protection, and alarm monitoring in the event of failure:
 Yes No
 - e. All penetrations into containment shell (walls, floors, and ceilings) of the suit area(s), chemical shower(s), and airlock(s) are sealed:

 Yes No
 - f. Daily inspections of the containment parameters and life support systems are performed, completed and documented before laboratory work begins:

 Yes No
 - g. A double-door, interlocked autoclave is provided for decontaminating waste materials removed from the suit area(s):
 Yes No
 - h. A dunk tank, fumigation chamber, or ventilated airlock to pass materials, supplies, or equipment into or out of the suit area(s):

 Yes No

sealed:

Princ	ipal In	vestigator:Laboratory building:Laboratory room number(s):	_ Date:	
	i.	Bench tops are seamless surfaces that are impervious to water and resistant to moderate he solvents, acids, alkalis, and other decontaminant chemicals:	eat and Yes	organic No
	j.	Laboratory furniture is capable of supporting anticipated loads and uses and is covered with a no that can be easily decontaminated:	n-fabric Yes	material No
	k.	A hands-free sink is located in the suit area(s):	Yes	No
	I.	If a central vacuum system is present, it serves only the suit area(s) and is protected by HEPA		
		filtration:	Yes	No
	m.	Liquid and gas services to the suit area(s) are protected by backflow devices:	Yes	No
	n.	Inner and outer doors to chemical showers and airlocks are interlocked to prevent both doors from the same time:	being op Yes	ened at No
	Ο.	Any windows are break resistant and sealed:	Yes	No
	p.	All drains in the suit area(s), chemical shower(s), and autoclave chambers connect directly to an a waste decontamination system:	ippropria Yes	te liquid No
	q.	An HVAC monitoring system is provided to avoid pressurization of the laboratory and is a laboratorians in the event of exhaust system failure:	larmed 1	to warn No
	r.	Redundant exhaust fans are installed:	Yes	No
	s.	All HEPA filters are tested and certified annually:	Yes	No
	t.	HVAC supply to the suit area(s), chemical shower(s), and airlock(s) is HEPA filtered:	Yes	No
	u.	HVAC exhaust from the suit area(s), chemical shower(s), and airlock(s) is double HEPA filtered filters in series:	I with the Yes	e HEPA No
	٧.	Appropriate communication systems are provided between the laboratory and external personnel (if fax, and computer):	ntercom, Yes	, phone, No
	w.	Emergency lighting and emergency communications systems are provided for the BSL-4 areas:	Yes	No
54.	Cla que	ities registering an ABSL-4 laboratory must provide the following information. Entities registering a s ss III cabinet for housing animals infected with biosafety level 4 agents, or other ABSL-4 use must c estion 52 above. Entities registering a protective suit laboratory housing animals infected with Biosents must complete question 53 :	omplete	
	a.	List animal models in use for ABSL-4 experiments:		
	b.	ABSL-4 Laboratory Room(s) designations:		
	C.	Specific procedures have been developed for handling animals under ABSL-4 conditions in the Class Protective suit laboratory(ies) being registered:	ss III cab Yes	inet or No
	d.	All appropriate special policies and procedures are approved by the Institutional Animal Care and		
		Use Committee:	Yes	No
	e.	Are aerosol experiments conducted in this ABSL-4 laboratory (ies):	Yes	No
	f.	Describe how are animals housed under ABSL-4 conditions:		
	g.	Cage washing is with a mechanical cage washer:	Yes	No
	h.	Cage washing area is shown on the floor plans:	Yes	No
	i.	Animal waste is sterilized (carcasses, sewage, bedding, etc.) before disposal	Yes	No
		Describe treatment method:		
	j.	Method of disposal of treated carcasses? Incineration Rendering Chemical decomposition Other (describe):	on	_

No

Yes

k. If floor drains are provided, the traps are always filled with an appropriate disinfectant:

Prir	cipal Investigator:	Laboratory building:	Laborator	ry room num	ber(s):	Date:	
		rsonal protective equipment is used: gned to work with infected animals work	in pairs:			Yes Yes	No No
<u></u>	Vacuum lines conta	nin HEPA filters:	Yes	No	No vacuu	m lines are	used
56	A medical surveillar	nce system is in place for laboratory perso	onnel using select a	agents:		Yes	No
57	Spills and accident laboratory director:	s that result in overt or potential exposu	ires to infectious m	naterials	are immediat	ely reported Yes	I to the No
58	A sharps policy is in	n place for this laboratory (or laboratories)):			Yes	No
59	A site-specific emer	rgency operations plan is available for this	s laboratory:			Yes	No
60	An Institutional Bios	safety Committee (IBC) reviews and appr	oves protocols prio	r to work	with select a	gents at this Yes	entity? No
	a. If yes, has IBC	approved the work proposed in this appli	ication:			Yes	No
	b. The entity has	been inspected by USDA, FDA, CLIA, Do	E, DoD or others:			Yes	No
	c. If yes, then give	e agency and date of last inspection(s): _				_	
61	methodologies or la	re than a paragraph) the objectives of the aboratory procedures that will be used. St e agents and recombinant DNA:					

SECTION 6B – BSL4/ABSL4 LABORATORIES ONLY: TO BE COMPLETED BY ALL ENTITIES (TRAINING AND SECURITY)

62	Tra	in	in	a	•

a.	 Site-specific security training is provided to individuals with access to areas where BSL-4 select agents are handled or stored: 				
b.	Site-specific safety training is provided to individuals with access to areas where BSL-4 selentandled or stored:	ect agents are Yes	No		
C.	A biosafety manual has been prepared that indicates special hazards associated with the B laboratory personnel are required to read and follow these practices and procedures:	SL-4 agents in use Yes	and No		
d.	Training is provided to laboratory personnel prior to beginning work with BSL-4 select agent	s: Yes	No		
e.	Training is provided: Annually Biannually Other (specify frequency)	:			
f.	Written records of individuals trained are kept:	Yes	No		
g.	Personnel are required to demonstrate proficiency in laboratory procedures prior to working agents:	with BSL-4 select Yes	No		
h.	Please provide a brief description of the individual training program for BSL-4 laboratory per additional sheets if necessary):	rsonnel (attach			

63. Security: Provide a brief explanation of the system in place to detect loss or theft of select agent(s):

a.	All viable BSL-4 agents are stored within the BSL-4 containment area:	Yes	No
b.	Storage areas within BSL-4 containment are under surveillance:	Yes	No
c.	Individual responsible for inventory of select agent(s):		
d.	How often is the inventory record reconciled?		
e.	How is access to the inventory log limited?		_
f.	Inventory tracking includes the following information (list):		
—	ere is a site-specific security plan for each of the BSL-4 laboratories listed above:	Yes	No
a.	Only persons whose presence in the BSL-4 laboratory facility or individual laboratory rooms is required or support purposes are authorized to enter:	red for p Yes	rogram No
b.	Access is to the laboratory is controlled by secure, locked doors:	Yes	No
C.	A signature log book indicating date and time of entry and exit of all personnel to and from the BSL-4 area is maintained:	contain Yes	ment No
d.	Indicate means of limiting access to buildings with BSL-4 laboratories using select agents: Guard station at the entity entrance Card access system or locks Security alarm system in the laboratory building Other (describe):		
e.	Indicate means of limiting access to select agents once inside the building:		

Guard station at the building entrance

Card access system or locks

Security alarm system in the laboratory

Other (describe):

Means to limit access to select agents once inside the laboratory:

Locked incubators, refrigerators, freezers, etc.

Security alarm system that directly monitors the laboratory

Other (describe): _

g. Means to limit access to select agents in storage:

Storage area door locked

Lock boxes

Security alarm system that directly monitors the laboratory

Other (describe):

h. Means to monitor unauthorized entry into the BSI-4 laboratory where select agents are used or stored:

Electronic logs of card access system entries are reviewed for unusual activity

Individuals not directly involved in research activities have access to select agents:

Manual sign in and out logs are kept and monitored

Camera surveillance (e.g., CCTV)

Other (describe):

i. The laboratory is secured when no one is present during regular working hours: Yes No

j. The laboratory is secured when no one is present after regular working hours: Yes No

Total number of personnel with access to BSL-4 area during operations:

Yes

No

If yes, please explain:

Princ	cipal Ir	nvestigator:	Laboratory building:	Laboratory room number(s):	_ Date:	
	m.		ersonnel (visitors, including janitorial and operatory with select agents:	d facility maintenance personnel) have	Yes	No
		If yes, are they a	llowed into the laboratory unescorted?		Yes	No
		If yes, please ex	plain:			
	n.		e entity limits access to the laboratories vand qualified persons:	where select agents are being manipulated	d and stor	ed to
		SECTION	I 6C – BSL4/ABSL4 LABORATORIES (WORKING WITH INFEC	ONLY: TO BE COMPLETED BY ENTITIE	S	
65.		ovide an estimate o		of petri dishes or flasks) and concentration	n of organ	isms
	a.	All cultures, stoc method:		aminated before disposal by an approved	sterilizatio Yes	on No
		If yes, describe r	method:			
		SECTION	I 6D – BSL4/ABSL4 LABORATORIES (WORKING WITH REC	ONLY: TO BE COMPLETED BY ENTITIE	S	
66.	Thi	s laboratory meet	s NIH guidelines for research involving re	ecombinant DNA molecules:	Yes	No
67.	Wil	l you possess, use	e or transfer the following:			
	a.		ll nucleic acids (synthetic or naturally der ors) that are capable of infection and/or re	ived, contiguous or fragmented, in host cheplication.	romosom Yes	es or ir No
	b.			de for the functional form(s) of any of the vector or host chromosome and/or are exp		
	c.	Select agent viru	ses, bacteria, fungi, and toxins that have	e been genetically modified.	Yes	No
68.	Do	you intend to con-	duct the following experiments:			
	a.	that are not know		eliberate transfer of a drug resistance traicquisition could compromise the use of the later.		
	b.		plying the deliberate formation of recomb vertebrates at an LD_{50} < 100 ng/kg body	pinant DNA containing genes for the biosyweight.	nthesis o	of selec No
69.				any associated expression control elemen		
70.	Giv	e an estimate of r	ange of length of recombinant DNA to be	used:		
		SECTION	I 6E – BSL4/ABSL4 LABORATORIES (WORKING WITH SM	ONLY: TO BE COMPLETED BY ENTITIE ALL ANIMALS	S	
71.	Lis	t species of small	animals that will be used:			
72.	De	scribe route of infe	ection:			
			ed prior to disposal (e.g., carcasses, sew		Yes	No
	lf y	es, describe meth	od:			
74.			at an Institutional Animal Care and Use (k with animals at this entity:	Committee (IACUC) review and approve	Yes	No
	a.	If yes, the propos	sed work with select agents in small anin	nals has been approved by the IACUC:	Yes	No

Yes

No

b. The laboratory space is accredited by AAALAC:

Principal Investigator:	Laboratory building:	Laboratory room number(s):	Date:

c. If yes, give inspection date:

SECTION 6F – BSL4/ABSL4 LABORATORIES ONLY: TO BE COMPLETED BY ENTITIES WORKING WITH LARGE ANIMALS

75.	75. List species of large animals that will be used:				
	a.	Describe route of infection:			
	b.	Carcass of animals are disposed of to avoid their use as food for human beings or animals:	Yes	No	
	c.	Animal waste is treated prior to disposal (e.g., carcasses, sewage, bedding, etc.):	Yes	No	
		If yes, give method:			
76.	Cai	rcass of animals are disposed on site:	Yes	No	
	a.	The entity requires that an Institutional Animal Care and Use Committee (IACUC) review protocols prior to work with animals at this entity:	and Yes	approve No	
		If yes, the proposed work with select agents in small animals has been approved by the IACUC:	Yes	No	
77	The	e laboratory space is accredited by AAALAC:	Yes	Nο	

Attachments

Attachment 1. 42 CFR Part 73. Select Biological Agents and Toxins; Final Rule. Federal Register, December 13, 2002.

Attachment 2. 9 CFR Part 121 - Agricultural Bioterrorism Protection Act of 2002; Possession, Use, and Transfer of Biological Agents and Toxins. Federal Register, December 13, 2002.

Attachment 3. 7 CFR 331 – Possession of Select Agents. Federal Register, December 13, 2002.

Attachment 4. APHIS application for permit to import or transport controlled material or organisms or vectors (VS form 16-3). (see pdf attachment)

Attachment 5. Additional Information for cell cultures and their products (VS form 16-7). (see pdf attachment)

Attachment 6. Guidance document for report of transfer of select agents and toxins and EA-101

The purpose of the CDC EA-101 form is to provide a method for the documentation of the transfer of a select agent. An EA-101 form must be completed for each transfer of a select agent. A copy of each EA-101 must be kept by the responsible official (RO) for three years.

Prior to transferring a select agent

Before a select agent is transferred, both the sender (transferor) and recipient (requestor) facilities must be registered with the CDC or APHIS. The agency that the Responsible Official (RO) should contact is determined by the type of select agent or toxin involved in the transfer. For HHS agents, the RO should contact CDC by facsimile (404-498-2265). For USDA agents, the RO should contact APHIS (for animal agents and toxins, telephone: 301-734-3277; facsimile: 301-734-3652). For HHS/USDA overlap agents, the RO should contact either APHIS or CDC. For plant agents and toxins the RO should contact APHIS (telephone: 301-734-5519; facsimile: 301-734-8700). A listing of HHS select agents and toxins is available at http://www.aghis.usda.gov/vs/ncie/bta.html. The list of plant agents and toxins is available at http://www.aphis.usda.gov/ppq/permits.

The recipient fills out blocks 1 and 2 of the EA-101 form and submits it to the sender. The sender's responsible official (RO) must FAX the form to CDC (FAX: 404-498-2265) or APHIS (FAX: 301-734-3652) to verify that the requesting entity: (1) retains a valid, current registration for the select agent being requested; (2) the person requesting the select agent is an employee of the requesting entity, and has been given Department of Justice clearance as an authorized individual to receive the select agent material to be transferred; and, (3) that the proposed use of the agent by the recipient is correctly indicated on CDC Form EA-101. CDC or APHIS will FAX back the form with a confirmation if the transfer information is approved. If the sender has a suspicion that the agent may not be used for the requested purpose, or there are any other concerns, then the sender should consult with the CDC.

Transfer:

(a) Shipment of the select agent to the recipient

The sender should ship the material to the receiver only after the sender has received a verification number from CDC or APHIS regarding the information in blocks 1 and 2 of the EA-101. The sender fills out Section 4, including the date the agent was shipped. Select agents must be packaged, labeled, and shipped in accordance with all federal regulations (e.g., 42 CFR 72, and 49 CFR 100-180) and international (IATA) regulations. It is highly recommended that the sender utilize a method for tracking the movement of the select agents being shipped.

(b) Transmittal of the EA-101 form to the CDC or APHIS

The RO from the recipient's entity must fill out Section 4 of the EA-101 form with the date received and FAX the form back to both the Sender's RO and the CDC or APHIS. The recipient is required to provide a completed paper copy or facsimile transmission of the EA-101 form within 2 business days to the Sender RO and the CDC or APHIS.

Destruction or depletion of a select agent

When a select agent from a transfer is depleted or destroyed, the RO of the entity must complete the appropriate information in Block 4 of the Form. A copy or FAX of the EA-101 form must be sent to the CDC or APHIS.

Recipient RO	Sender RO
Completes agent description (Block 1)	
2. Completes recipient information (Block 2)	
3. Faxes form EA-101 and registration certificate to sender	
	4. Completes sender information (Block 3)
	Faxes form EA-101 to CDC or APHIS for verification number
	6. After receipt of approval by CDC or APHIS, sender completes shipping information (Block 4), except for date received
	7. Oversees packaging and shipment of agent to recipient. Sends shipment.
8. Receives agent	
9. Recipient RO completes Block 4 (i.e., date select agent material received and confirms that what was listed on packing inventory has been received) and provides paper copy or faxes form EA-101 to both CDC or APHIS and the sender within 2 business days of receipt.	
10. Retains paper record for 3 yr, or retains record 3 yr after agent consumed or destroyed, whichever is longer	10. Retains paper record for 3 yr, or retains record 3 yr after agent consumed or destroyed, whichever is longer